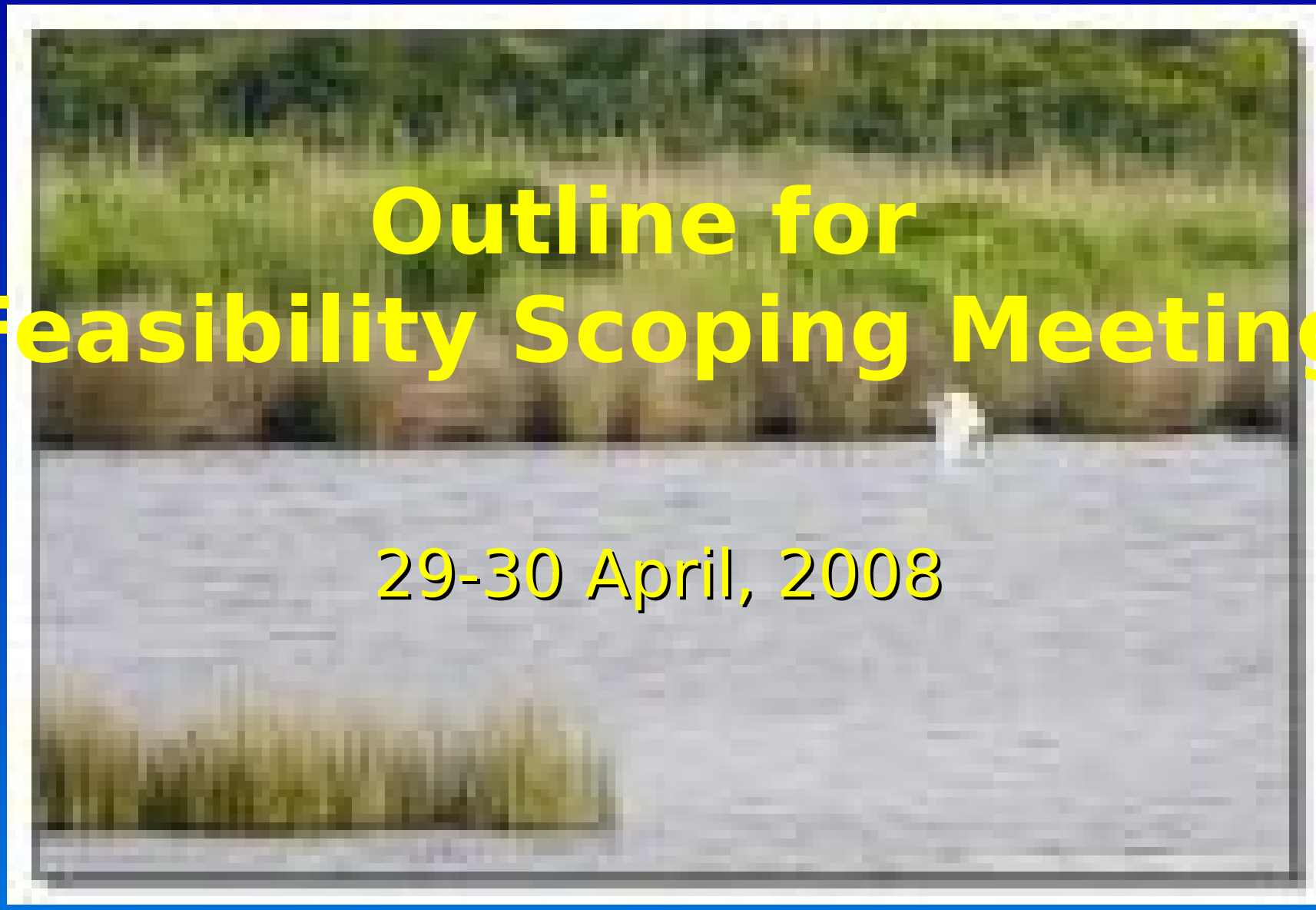

Outline for Feasibility Scoping Meeting

29-30 April, 2008

Feasibility Scoping Meeting

- ✓ Major Study Milestone
- ✓ Establishes
  - ✓ Objectives for Study – what we are trying to accomplish
  - ✓ Current Conditions
  - ✓ Trends
  - ✓ Future without action – for comparison
  - ✓ Potential Management Measures
  - ✓ Preliminary Alternatives
- ✓ Makes the case for action: non-structural and structural
- ✓ Sets stage to determine and analyze alternatives

FSM Outline

- 1.0 Study Information - background
- 2.0 Existing Conditions and Assumptions
  - ✓ Water Quality – Turbidity, Salinity, TSS, Nutrients, DO, Color
    - ✓ General
    - ✓ Historical
    - ✓ Recent field work
    - ✓ Results and Conclusions
    - ✓ Future without action

FSM Outline

2.0 Existing Conditions and Assumptions (Contd)

- ✓ Submerged Aquatic Vegetation
- ✓ Fish, Waterfowl
- ✓ Socio-Economics, Land Use
- ✓ Cultural Resources, Recreation
- ✓ System Modeling

FSM Outline

3.0 Public Involvement

- ✓ Public Involvement Program
- ✓ Scoping Meeting
- ✓ Public Concerns
- ✓ Institutional Involvement
- ✓ Additional Coordination Requirements

FSM Outline

4.0 Problems and Opportunities

- ✓ **Example Problems**
  - Water quality has declined since the 1970s ?
  - Fish and waterfowl habitats declined since the 1980s ?
  - SAVs has declined since the 1980s ?

- ✓ **Example Opportunities**
  - Improve water quality by reducing turbidity, suspended solids, and nutrient loading to create more habitat for SAVs
  - Improve fish and waterfowl habitat by restoring SAVs.
  - Establish multifunctional dredge disposal islands to allow proper maintenance of the AIWW, eliminate turbidity caused by dredging and propeller wash, and provide protected areas to establish SAVs.

FSM Outline

5.0 Specific Planning Objectives and Constraints

- ✓ **National Objective**
  - Restore substantial environmental functionality of Currituck Sound

- ✓ **Example Project Objectives**
  - Improve water quality by reducing turbidity, suspended solids, and nutrient loading to create more habitat for SAVs
  - Increase SAVs
  - Increase fish and wildlife habitat values
  - Establish multifunctional dredge disposal islands

- ✓ **Constraints**

FSM Outline

6.0 Applicable Management Measures and Preliminary Plans

- ✓ **Management measures**
  - Maintenance dredging of AIWW , multifunctional dredge disposal islands
  - Sediment capping, bird islands, wave attenuators - rock sills
  - Shoreline erosion protection,
  - SAV plantings, Riparian forest buffers
  - Watershed planning, Land use regulations
  - Storm water run-off measures –m retention structures
  - Boating restrictions
  - Public awareness programs

- ✓ **Alternatives**

- ✓ **Assessment Modeling**

FSM Outline

7.0 Evaluation of Preliminary Plans

Supporting Documents

- ✓ Studies – Water Quality, SAVs
- ✓ Maps – Location, Watershed, General Features, Bathymetry, Turbidity, Salinity, TSS, Nutrients, DO, Wind fetch, SAV – historical, current
- ✓ Figures – timeline, SAV correlations – fish and waterfowl, hurricanes, population trends